

386 | DOS-Extender Reference Card

© 1986-1991 Phar Lap Software, Inc.



Phar Lap Software, Inc.
60 Aberdeen Ave., Cambridge, MA 02138
(617) 661-1510
FAX (617) 876-2972
dox@pharlap.com
tech-support@pharlap.com

Conventions

<i>courier</i>	indicates switch syntax
<i>italics</i>	indicate a name or value that must be entered by the user
[]	(brackets) indicate optional items or information
	(vertical bar) separates alternative items

Command Line Switches

<i>%varname</i>	Read switches from environment variable.
<i>@@filename</i>	Read switches from conditional command file.
-A20	Disable address line 20 on each switch to real mode.
-AT	Force selection of IBM PC AT (ISA) architecture.
-BAUD <i>speed</i>	Set the baud rate for the comm port selected with -COM1 or -COM2.
-CALLB[UES] <i>nkilobytes</i>	Allocate conventional memory buffer for use by the application program.
-COM1	Redirect output from -DEBUG switch to communications port 1.
-COM2	Redirect output from -DEBUG switch to communications port 2.
-CYRIX AUTO	Use automatic detection of Cyrix EMC87 coprocessor.
-CYRIX OFF	Disable detection of Cyrix EMC87 coprocessor.
-CYRIX ON	Force detection of Cyrix EMC87 coprocessor.

continued ➤

Command Line Switches (cont.)

-DATAT[HRESHOLD]	<i>nbytes</i>	Force 386 DOS-Extender to attempt to convert pointers on a DOS or BIOS system call before buffering the data.
-DEBUG	<i>level</i>	Turn on debug printout.
-EISA		Force selection of EISA architecture.
-ERR[ATA17]		Work around 80386 erratum 17, leaving paging enabled.
-EXTH[IGH]	<i>address</i>	Limit highest available direct extended memory address.
-EXTL[OW]	<i>address</i>	Limit lowest available direct extended memory address.
-GDTE[NT]	<i>nentries</i>	Specify initial number of entries in GDT (default = 512).
-HWI[VEC]	<i>vector</i>	Relocate hardware interrupts IRQ0-7 to specified vectors.
-INTM[AP]	<i>vector</i>	Inform 386 DOS-Extender where hardware interrupts IRQ0-7 are located.
-ISTK[SIZE]	<i>nkilobytes</i>	Set the size of the interrupt stack buffers (default = 1KB).
-LDTE[NT]	<i>nentries</i>	Specify initial number of entries in LDT (default = 512).
-MAXBL[KXMS]	<i>nbytes</i>	Limit maximum size of an XMS block.
-MAXE[XTMEM]	<i>nbytes</i>	Limit amount of direct extended memory to allocate.
-MAXIB[UF]	<i>nkilobytes</i>	Select maximum size for MS-DOS data buffer (default = 16 KB).
-MAXP[GMMEM]	<i>nbytes</i>	Limit maximum memory allocation of application program.
-MAXR[EAL]	<i>nparagraphs</i>	Select maximum amount of real mode memory to leave free.
-MAXV[CPIMEM]	<i>nbytes</i>	Limit amount of VCPI memory to allocate.
-MAXX[MSMEM]	<i>nbytes</i>	Limit amount of XMS memory to allocate.
-MCA		Force selection of IBM PS/2 (Micro Channel) architecture.
-MINI[BUF]	<i>nkilobytes</i>	Select minimum size for MS-DOS data buffer (default = 1KB).
-MINR[EAL]	<i>nparagraphs</i>	Select minimum amount of real mode memory to leave free.
-NI[STACK]	<i>nbuffers</i>	Allocate interrupt stack buffers (default = 6).

Command Line Switches (cont.)

-NOB [IM]	Do not attempt to allocate COMPAQ built-in memory when running on a COMPAQ PC.
-NOBMCHK	Do not check whether BIOS block move calls are moving data to memory owned by the application program.
-NOMUL	Do not check at startup for 80386 chips that get incorrect results on 32-bit MUL instructions.
-NOP [AGE]	Disable 80386 hardware paging capability.
-NOSPCL [MEM]	Do not attempt to allocate COMPAQ built-in memory when running on a COMPAQ PC.
-NOVCPI	Refuse to run under VCPI.
-OPEND [ENY]	Open the application .EXP file with MS-DOS sharing mode set to write denied.
-PRI [VEC] <i>vector</i>	Select protected mode interrupt for BIOS print screen system call (default = 80h).
-PRIV [ILEGED]	Operate at privilege level 0.
-REALB [REAK] <i>nbytes</i>	Load start of application program in conventional memory.
-SAVE [INTS]	Save real mode interrupt vectors.
-SAVER [EGS]	Preserve high 16 bits of general registers across switches to real mode initiated by software interrupts.
-UNPRIV [ILEGED]	Operate at privilege level 3.
-VDISK	Use the larger of two inconsistent VDISK allocation signatures.
-WEITEK AUTO	Use automatic detection of Weitek 3167/4167 coprocessor.
-WEITEK OFF	Disable detection of Weitek 3167/4167 coprocessor.
-WEITEK ON	Force detection of Weitek 3167/4167 coprocessor.
-XT	Force selection of IBM PC/XT architecture.



Command Line Switches For Use with 386IVMM

-CODES[IZE] <i>nbytes</i>	Specifies number of bytes of code that can be paged to disk without seriously affecting performance.
-DEM[ANDLOAD]	Page program into memory as needed.
-FLUSH[SWAP]	Causes 386IVMM to update disk directory when swap file size is increased.
-LFU	Selects Least Frequently Used replacement policy.
-LOCKS[TACK] <i>nbytes</i>	Overrides default stack size calculation for locking initial program stack if running at privilege level 0.
-MAXS[WFSIZE] <i>nbytes</i>	Limits the maximum disk space allocated to the swap file.
-MINS[WFSIZE] <i>nbytes</i>	Specifies minimum size of swap file created at program load time.
-NOPGE[XP]	Forces 386IVMM to page code to the swap file rather than to the .EXP file.
-NOSWFG[ROW1ST]	Causes page fault handler to take a swap page from an in-memory virtual page before trying to increase swap space.
-NOVM	Instructs 386IDOS-Extender not to load 386IVMM.
-NUR	Selects Not Used Recently replacement policy.
-P[AGE]L[OG] <i>filename</i>	Write 386IVMM paging information to a log file.
-SW[AP]C[HK] FORCE	Guarantees sufficient swap space when a page fault occurs.
-SW[AP]C[HK] MAX	Selects a maximum size swap file.
-SW[AP]C[HK] OFF	Disables all swap space checking when virtual memory is allocated.
-SW[AP]C[HK] ON	Check for sufficient swap space, but do not increase swap file size when virtual memory is allocated.
-SW[AP]DEFD[ISK]	Use current default disk drive for the swap file.
-SW[AP]D[IR] <i>dirname</i>	Specifies device and directory for page swap file.
-SW[AP]N[AME] <i>filename</i>	Specifies the swap file name.
-SWFG[ROW1ST]	Causes page fault handler to try to grow the swap file before taking a swap page from an in-memory virtual page.
-VM[FILE] <i>filename</i>	Specifies name and location of the version of 386IVMM to be loaded by 386IDOS-Extender.
-VS[CAN] <i>nmilliseconds</i>	Selects frequency of page table scan for page replacement policy.
-VSL[EN] <i>nbytes</i>	Selects maximum amount of address space to scan.